

ABSTRACT OF DISCLOSURE

~~An object of the present invention is to provide a co-~~
catalyst for purifying an exhaust gas which can be used
for a longer period of time as an actual catalyst by using
the cerium oxide in the conventional co-catalyst for
purifying the exhaust gas as a cerium-containing complex
oxide for elevating the resistance to heat and suppressing
the performance reduction due to thermal deterioration
and by making a specific surface area and an oxygen
storage capacity over specified values. A co-catalyst for
purifying an exhaust gas of the present invention
includes a composite oxide including (a) cerium; and (b)
at least one element selected from the group consisting of
zirconium, yttrium, strontium, barium and a rare-earth
element supported on a particulate aluminum oxide
support; a specific surface area of the co-catalyst after
sintering being not less than $40 \text{ m}^2/\text{g}$; an oxygen storage
capacity at 400°C being not less than $10 \text{ } \mu \text{ mols/g}$ and
an oxygen storage capacity at 700°C being not less than
 $100 \text{ } \mu \text{ mols/g}$.